



3 Phase Transformer Turns Ratio Tester



Up to
50,000
Ratio

1 V to
250 V
Test Voltage

Large
Colour Touch
Display

High
Accuracy
0.08%

Built-in
Printer &
Bluetooth



Measurement 0.8 to 50,000 Ratio Test Voltage 1V to 250V High Accuracy 0.08%

TURA-03 BLUE

3 Φ Transformer Turns Ratio Tester

TURA-03 BLUE is designed by advanced engineering technology to measure the turns ratio of single and three-phase transformers.

TURA-03 BLUE has a fast, easy and accurate TTR measurement features for current, voltage and power transformers by its user-friendly software.

By using ANSI/IEEE C57.12.90 measurement method TURA-03 BLUE can produce precise results.

TURA-03 BLUE is one of the most accurate devices with its wide range (0.8 to 50,000) ratio measurement capability and high precision (0.08 %).

Besides the ratio measurement, TURA-03 BLUE can also measure excitation current, phase angle, polarity, and ratio error.

Even though TURA-03 BLUE has three-phase cable configuration, users can also make single-phase transformer tests.

TURA-03 BLUE can detect vector groups automatically.

TURA-03 BLUE has a wide operation range from high excitation value current transformer to high powered power transformer at substation with the 1V, 4V, 10V, 40V, 100V and 250V AC test voltage generation capability.

A 7-inch colour touch display allows TURA-03 BLUE to show all measurement results on a single screen.

USB, Built-in Bluetooth and Flash Memory features allow TURA-03 BLUE to control, record and store measurement results (up to 100 Test Records).

With the HighTest Data Management Platform (DMP), users can control TURA-03 BLUE and analyse measurement results.

Operators can easily print the measurement results with the 2.28-inch built-in Printer of TURA-03 BLUE.

Multi-language capability and user-friendly operation menu make it easy to control TURA-03 BLUE, even by less trained staff.

TURA-03 BLUE can control tap changer (raise and lower) via its tap changer outputs.

TURA-03 BLUE is a light, compact and rugged device with the protection of IP67 (case closed).

In addition to ratio tests, TURA-03 BLUE can be used to perform Magnetic Balance Test as well.





Features

- Turns Ratio Measurement
(Single-phase and three-phase measurement)
- Ranges from 0.8 to 50,000 ratio measurement
- High Accuracy (0.08 %)
- 1V, 4V, 10V, 40V, 100V and 250V AC test voltage
- Ratio Error Measurement
- Magnetic Balance Test
- Excitation Current, Phase Angle, Polarity Measurement
- Built-in Printer
- Automatic vector group detection feature
- Internal memory, USB Flash Drive
- PC control via USB cable
- Built-in Bluetooth control and communication
- 7-inch large colour touch display

Technical Specifications

Measurement Parameters	Turn Ratio Measurement, Excitation Current, Phase Angle, Polarity, Ratio Error (%), Vector group detection, Magnetic Balance		
Ratio Measurement Modes	CT Mode, PT Mode (Single Phase and Three Phase)		
Measurement Method	ANSI/IEEE C57.12		
Test Voltages	CT Mode: 1 V and 4 V PT Mode: 1, 4, 10, 40, 100, 250 V		
Ratio Range	0.8 – 50,000		
Accuracy	Mode	Ratio	Accuracy
	CT Mode (1V -4 V)	0.8000 - 399.99 400.00 - 4000.0	0.08 % 0.1 %
	PT Mode(10 V- 250 V)	0.8000 - 5000.0 5000.1 - 12000 12001 - 50000	0.08 % 0.15 % 0.5 %
Phase Angle Measurement	0-360 Degree		
Excitation Current	2 A		
Accuracy	Range	Resolution	Accuracy
	Up to 1.0000 mA	0.2 μ A	0.25 % rdg \pm 500 μ A
	1.0000 mA to 10.000 mA	1 μ A	0.25 % rdg \pm 500 μ A
	10.000 mA to 100.00 mA	10 μ A	0.25 % rdg \pm 500 μ A
	100.00 mA to 2000.0 mA	100 μ A	0.25 % rdg \pm 500 μ A
Communication	USB, Flash Drive, Built-in Bluetooth		
PC Software	DMP Software		
Display	7-inch Colour Touch Display		
Dimensions	16.7" x 13.4" x 6.8" (424 mm x 340 mm x 173 mm)		
Weight	7.1 kg		
Working Temperature	-10 $^{\circ}$ C to +50 $^{\circ}$ C		
Protection Class	IP67 (case closed)		
Set of Package	TURA-03 BLUE, Power Cable, USB Cable, 15 Feet Test Cable Set, Tap Changer Cable Set, Ground Cable, Cable Bag, 2 Printer Paper, User Manual, DMP Software		
Options	Hard Carrying Case, Battery, 30 Feet Test Cable Set		

Specifications are valid under 25 $^{\circ}$ C temperature. *Contents subject to change without notice.

HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems.

We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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